

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

HM12/0327

GIULIO A DECONTI LAHIVE & COCKFIELD, LLP 28 STATE STREET DOSTON NA 02109

APPLICATION NO.		FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
	08/702,52	S 02/07/9	7 016	GAMBEL, P	16	44 03/28/01
First Named Applicant	SHARPE,		35	USC 154(b) term ext. =	. 0	Days.

TITLE OF NUCLEIC ACIDSENCODING 87-1 AND 87-2 MOLECULES

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN	I. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
i BWT-1200	CPUS 530-	387.300	E30	UTIL	ITY NO	\$1240.0	0 06/28/01

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- Review the SMALL ENTITY status shown above.
 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADGMARK OFFICE COPY

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r	Application No.	Applicant(s)	
Notice of Allowability	08/702525	SHARPE ETAL.	
Mode of Anowability	Examiner	Art Unit	
	GAMBEL	1644 29/G	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance and Issue THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE initiative of the Office or upon petition by the applicant. See 37 C	GOR REMAINS) CLOSED in this ap Fee Due or other appropriate comm ENT RIGHTS. This application is sulper 1.313 and MPEP 1308.	plication. If not included	
1. This communication is responsive to 3/23/6 \ 2. The allowed claim(s) is/are 63-94, a6-98, (occost). 3. The drawings filed on are acceptable as formal drained at a claim for foreign priority un a) All b) Some* c) None of the:	wings.		
1. Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have			
Copies of the certified copies of the priority do			
International Bureau (PCT Rule 17.2(a)).		3	
* Certified copies not received:			
5. Acknowledgement is made of a claim for domestic priority	under 35 U.S.C. § 119(e).		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of FOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTICE COMPLYING WITH THE REQUIREMENT FOR THE DEPOSIT OF B. 6. Note the attached EXAMINER'S AMENDMENT or NOTICE the path or declaration in deficient. A SUBSTITUTE OF THE DEPOSIT OF THE DEPOSI	this application. THIS THREE-MON TUTE OATH OR DECLARATION. IOLOGICAL MATERIAL is extenda	NTH PERIOD IS NOT EXTENDABLE This three-month period for ble under 37 CFR 1.136(a).	
the oath or declaration is deficient. A SUBSTITUTE OAT	H OR DECLARATION IS REQUIRE	D.	
7. Applicant MUST submit NEW FORMAL DRAWINGS			
(a) including changes required by the Notice of Draftsper	son's Patent Drawing Review(PTO-	948) attached	
1) hereto or 2) to Paper No. 25.			
(b) including changes required by the proposed drawing (c) including changes required by the artists of F	correction filed, which has be	en approved by the examiner.	
(c) ☐ including changes required by the attached Examiner	s Amendment / Comment or in the C	Office action of Paper No	
Identifying indicia such as the application number (see 3' should be filed as a separate paper with a transmittal lett	7 CFR 1.84(c)) should be written o er addressed to the Official Drafts	n the drawings. The drawings person.	
8. Note the attached Examiner's comment regarding REQUIF	REMENT FOR THE DEPOSIT OF BI	OLOGICAL MATERIAL.	
Any reply to this letter should include, in the upper right hand corn applicant has received a Notice of Allowance and Issue Fee Due, ALLOWANCE should also be included.	er, the APPLICATION NUMBER (SE the ISSUE BATCH NUMBER and D	RIES CODE / SERIAL NUMBER). If ATE of the NOTICE OF	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No	4⊡ Interview Summa 6	I Patent Application (PTO-152) ry (PTO-413), Paper No idment/Comment ment of Reasons for Allowance	

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DETAILED ACTION

1. Claims 18--29, 32, 48-59, 62, 66-68, 72-74 and 83-100 are pending.

Claims 18-29, 32, 48-59, 62, 66-68, 72-74 have been withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b) as being drawn to a nonelected invention

Claims 1-17, 30-31, 33-47, 60-61, 63-65, 69-71, 75-82 have been canceled previously.

EXAMINER'S AMENDMENT

- 2. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.
- 3. Authorization for this Examiner's Amendment was given in a telephone interview with DeAnn Smith as authorized by Amy Mandragouras on March 22, 2001.
- 4. Cancel claims 18-29, 32, 48-59, 62, 66-68, 72-74, 95 and 99.
- 5. Amend the first page of the specification by inserting the following before "Background of the Invention":

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- This application is the U.S. national phase of PCT/US95/02576, filed March 2, 1995, which is continuation-in-part of USSN 08/205,697, filed March 2, 1994, 400 6, 218, 516
- 6. Replace the title with the following:
- -- NUCLEIC ACIDS ENCODING B7-1 AND B7-2 MOLECULES -- .
- 7. Replace the Abstract with the following:

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Nucleic acids encoding B7-1 and B7-2 molecules which bind CD28 or CTLA4 are described. These structural forms correspond to naturally-occurring alternatively spliced forms comprising cytoplasmic and signal peptide domains of T cell costimulatory molecules or variants thereof which can be produced by standard recombinant DNA techniques. These T cell costimulatory molecules can be used to identify agents which stimulate the express of alternative forms of costimulatory molecules and to identify components of the signal transduction pathway which results in costimulation of T cells.

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REASONS FOR ALLOWANCE

8. The following is an Examiner's Statement of Reasons for Allowance:

The pending nucleic acids encoding B7-1 and B7-2 molecules are structurally distinct on the primary amino acid basis and therefore free from the prior art. Accordingly the claims of this application are deemed allowable.

- 9. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Gambel whose telephone number is (703) 308-3997. The examiner can normally be reached Monday through Thursday from 7:30 am to 6:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center telephone number is (703) 305-3014.

Phillip Gambel, Ph.D.
Primary Examiner
Technology Center 1600
March 23, 2001